

DT13 Rec'd PCT/PTO 16 FEB 2005

BBC166 Seqlist
SEQUENCE LISTING

<110> Krause, Hans Juergen
Baust, Lisa
Dickes, Michael

<120> FORMULATION OF HUMAN ANTIBODIES FOR TREATING TNF-ALPHA
ASSOCIATED DISORDERS

<130> BBC-166

<140> 10/222140

<141> 2002-08-16

<160> 34

<170> FastSEQ for windows Version 4.0

<210> 1

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> mutated human antibody

<400> 1

```

Pro Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1          5          10          15
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn
 20          25          30
Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35          40          45
Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50          55          60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65          70          75          80
Pro Glu Asp Val Ala Thr Tyr Tyr Cys Gln Arg Tyr Asn Arg Ala Pro
 85          90          95
Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100          105

```

<210> 2

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> mutated human antibody

<400> 2

```

Pro Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 1          5          10          15
Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp
 20          25          30
Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 35          40          45
Val Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser
 50          55          60
Val Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu
 65          70          75          80
Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr

```

BBC166 Seqlist

Cys Ala Lys Val⁸⁵ Ser Tyr Leu Ser Thr⁹⁰ Ala Ser Ser Leu Asp⁹⁵ Tyr Trp
 Gly Gln Gly¹⁰⁰ Thr Leu Val Thr Val¹⁰⁵ Ser Ser
 115 120

<210> 3
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> mutated human antibody

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa = Thr or Ala

<400> 3
 Pro Gln Arg Tyr Asn Arg Ala Pro Tyr Xaa
 1 5 10

<210> 4
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> mutated human antibody

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa = Tyr or Asn

<400> 4
 Pro Val Ser Tyr Leu Ser Thr Ala Ser Ser Leu Asp Xaa
 1 5 10

<210> 5
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> mutated human antibody

<400> 5
 Pro Ala Ala Ser Thr Leu Gln Ser
 1 5

<210> 6
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> mutated human antibody

BBC166 Seq1ist

<400> 6
Pro Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val
1 5 10 15
Glu Gly

```
<210> 7
<211> 12
<212> PRT
<213> Artificial Sequence
```

<220>
<223> mutated human antibody

<400> 7
Pro Arg Ala Ser Gln Gly Ile Arg Asn Tyr Leu Ala
1 5 10

```
<210> 8
<211> 6
<212> PRT
<213> Artificial Sequence
```

<220>
<223> mutated human antibody

<400> 8
Pro Asp Tyr Ala Met His
1 5

<210> 9

$\langle 400 \rangle$ 9
000

$\langle 210 \rangle$ 10

$$\begin{matrix} <400> \\ 000 \end{matrix} \quad 10$$

| | |
|-------|---------------------|
| <210> | 11 |
| <211> | 10 |
| <212> | PRT |
| <213> | Artificial Sequence |

<220>
<223> mutated human antibody

<400> 11
Pro Gln Lys Tyr Asn Ser Ala Pro Tyr Ala
1 5 10

```
<210> 12
<211> 10
<212> PRT
<213> Artificial Sequence
```

<220>

BBC166 Seqlist

<223> mutated human antibody

<400> 12

Pro Gln Lys Tyr Asn Arg Ala Pro Tyr Ala
1 5 10

<210> 13

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> mutated human antibody

<400> 13

Pro Gln Lys Tyr Gln Arg Ala Pro Tyr Thr
1 5 10

<210> 14

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> mutated human antibody

<400> 14

Pro Gln Lys Tyr Ser Ser Ala Pro Tyr Thr
1 5 10

<210> 15

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> mutated human antibody

<400> 15

Pro Gln Lys Tyr Asn Ser Ala Pro Tyr Thr
1 5 10

<210> 16

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> mutated human antibody

<400> 16

Pro Gln Lys Tyr Asn Arg Ala Pro Tyr Thr
1 5 10

<210> 17

<211> 10

<212> PRT

<213> Artificial Sequence

BBC166 Seqlist

<220>
 <223> mutated human antibody
 <400> 17
 Pro Gln Lys Tyr Asn Ser Ala Pro Tyr Tyr
 1 5 10

<210> 18
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> mutated human antibody
 <400> 18
 Pro Gln Lys Tyr Asn Ser Ala Pro Tyr Asn
 1 5 10

<210> 19
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> mutated human antibody
 <400> 19
 Pro Gln Lys Tyr Thr Ser Ala Pro Tyr Thr
 1 5 10

<210> 20
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> mutated human antibody
 <400> 20
 Pro Gln Lys Tyr Asn Arg Ala Pro Tyr Asn
 1 5 10

<210> 21
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> mutated human antibody
 <400> 21
 Pro Gln Lys Tyr Asn Ser Ala Ala Tyr Ser
 1 5 10

<210> 22
 <211> 10

BBC166 seqlist

```

<212> PRT
<213> Artificial Sequence

<220>
<223> mutated human antibody

<400> 22
Pro Gln Gln Tyr Asn Ser Ala Pro Asp Thr
1          5          10

<210> 23
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> mutated human antibody

<400> 23
Pro Gln Lys Tyr Asn Ser Asp Pro Tyr Thr
1          5          10

<210> 24
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> mutated human antibody

<400> 24
Pro Gln Lys Tyr Ile Ser Ala Pro Tyr Thr
1          5          10

<210> 25
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> mutated human antibody

<400> 25
Pro Gln Lys Tyr Asn Arg Pro Pro Tyr Thr
1          5          10

<210> 26
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> mutated human antibody

<400> 26
Pro Gln Arg Tyr Asn Arg Ala Pro Tyr Ala
1          5          10

```

BBC166 Seqlist

<210> 27
 <211> 13
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> mutated human antibody
 <400> 27
 Pro Ala Ser Tyr Leu Ser Thr Ser Ser Ser Leu Asp Asn
 1 5 10

<210> 28
 <211> 13
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> mutated human antibody
 <400> 28
 Pro Ala Ser Tyr Leu Ser Thr Ser Ser Ser Leu Asp Lys
 1 5 10

<210> 29
 <211> 13
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> mutated human antibody
 <400> 29
 Pro Ala Ser Tyr Leu Ser Thr Ser Ser Ser Leu Asp Tyr
 1 5 10

<210> 30
 <211> 13
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> mutated human antibody
 <400> 30
 Pro Ala Ser Tyr Leu Ser Thr Ser Ser Ser Leu Asp Asp
 1 5 10

<210> 31
 <211> 13
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> mutated human antibody
 <400> 31
 Pro Ala Ser Tyr Leu Ser Thr Ser Phe Ser Leu Asp Tyr
 1 5 10

BBC166 Seqlist

<210> 32
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> mutated human antibody

<400> 32
Pro Ala Ser Tyr Leu Ser Thr Ser Ser Ser Leu His Tyr
1 5 10

<210> 33
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> mutated human antibody

<400> 33
Pro Ala Ser Phe Leu Ser Thr Ser Ser Ser Leu Glu Tyr
1 5 10

<210> 34
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> mutated human antibody

<400> 34
Pro Ala Ser Tyr Leu Ser Thr Ala Ser Ser Leu Glu Tyr
1 5 10